

Stepchuk V.O.

Competence-based approach in the system of engineering and technical education

Abstract: The article discusses the concepts of “competence”, “competency”, and “competency-based approach”. Various approaches to identifying the necessary competencies of a modern engineer described. Various aspects of higher engineering and technical education in the conditions of a two-level system and innovative trends in abandoning it revealed; an analysis of domestic and foreign experience of the competency-based approach in engineering training provided. The need to make a technological breakthrough determined by the interests of the country’s development and ensuring its security. The author emphasizes that the basis of the competency-based approach in engineering and technical education is the unity of theory and practice; without fundamental theoretical knowledge, it is impossible to form special skills and competencies. Fundamentality and universality are the features that have always created the advantages of the domestic education system. Therefore, it is necessary to revive the fundamental nature of engineering and technical education, as well as pay the most serious attention to the moral education of future engineers, the importance of which emphasized by many eminent domestic and foreign scientists.